3GPP TSG SA WG 3 Meeting SA3#102e TDoc <TDocNumber>

Electronic meeting, Online, 18 - 29 January 2021

**Title: Reply LS to LS on** **Security Requirements for Sidelink/PC5 Relays**

**Response to: LS S2-2004750**

**Release: Rel-17**

**Work Item: FS\_5G\_ProSe**

**Source: Tobe SA3**

**To: SA2,**

**Cc: RAN2, RAN3**

**Contact person: Suresh Nair**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

**Attachments:** None

# 1 Overall description

SA3 thanks SA2 for the LS S2-2004750 on FS\_5G\_ProSe in TR 23.752.

Corresponding to the SA2 study, SA3 is studying all the related security aspects in TR 33.847.

The Key issues relevant with Relay scenarios include:

* KI#3 Security of UE-to-Network Relay,
* KI#4 Authorization in the UE-to-Network relay scenario,
* KI#5 Privacy protection over the UE-to-Network Relay,
* KI#6 Integrity and confidentiality of information over the UE-to-UE Relay,
* KI#7Authorization in the UE-to-UE relay scenario,
* KI#8 Privacy of information over the UE-to-UE Relay,
* KI#9 Key management in 5G Proximity Services for UE-to-Network relay communication
* KI#11: UE identity protection during ProSe discovery
* KI#14: security for support of Non-IP traffic
* KI#15: privacy of ProSe entities while supporting Non-IP traffic
* KI#16: Privacy protection of PDU session-related parameters for relaying.

According to the table 6.0-1 copied as below, you can find the corresponding solutions to these Key issues. Note that this table is not yet complete since the study is still in progress.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Key Issues | | | | | | | | | | | | | | | |
| Solutions | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |
| 3 | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |
| 6 |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |
| 8 |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |
| 9 |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  | X | X |  |  |  |  | X |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |
| 13 |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  | X | X |  |  |  |  | X |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |
| 18 |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |
| 24 |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |
| 26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |
| 27 | X |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |
| 28 | X |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |
| 29 |  |  | X | X |  |  |  |  | X |  |  |  |  |  |  |  |
| 30 |  |  | X | X |  |  |  |  | X |  |  |  |  |  |  |  |
| 31 |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |
| 32 |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  | X |

There are no conclusions in TR 23.752 at present time.

# 2 Actions

**To: SA2**

**ACTION:** SA3 kindly ask SA2 to take the above reply into consideration. If SA2 makes further conclusions on the architectural options L2 vs L3 relays, please keep SA3 informed.

# 3 Dates of next TSG SA WG 3 meetings

SA3#102e-Bis 1 - 5 March 2021> Electronic meeting

SA3#103e 17 - 28 may 2021 Electronic meeting